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1 The state of the art in locally distributed Web-server systems

Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu

June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

Full text available: pdf(1.41 MB) Additional Information: full citation, abstract, references, citings, index terms

The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has produced a variety of novel content delivery architectures. This article w ...

Keywords: Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

2 Trunking of TDM and narrowband services over IP Networks

James Aweya

January 2003 **International Journal of Network Management**, Volume 13 Issue 1

Full text available: pdf(418.58 KB) Additional Information: full citation, abstract, references, citings, index terms

The recent interest in IP as the vehicle for transporting TDM and narrowband services stems from the possibility of using a common transport network for voice, video, and data, and the flexibility with which new services can be introduced. A key step in the evolution of networks towards a 'broadband' IP-based environment is the 'graceful' interworking of the IP networks with the existing networks and services, particularly with the circuit switched telephone network. A &I ...

3 Traffic characterization: Characteristics of internet background radiation

Ruoming Pang, Vinod Yegneswaran, Paul Barford, Vern Paxson, Larry Peterson

October 2004 **Proceedings of the 4th ACM SIGCOMM conference on Internet measurement**

Full text available: pdf(396.12 KB) Additional Information: full citation, abstract, references, index terms

Monitoring any portion of the Internet address space reveals incessant activity. This holds even when monitoring traffic sent to unused addresses, which we term "background

radiation. " Background radiation reflects fundamentally nonproductive traffic, either malicious (flooding backscatter, scans for vulnerabilities, worms) or benign (misconfigurations). While the general presence of background radiation is well known to the network operator community, its nature has yet to be broadly charac ...

Keywords: honeypot, internet background radiation, network telescope

4 People, places, things: web presence for the real world

Tim Kindberg, John Barton, Jeff Morgan, Gene Becker, Debbie Caswell, Philippe Debaty, Gita Gopal, Marcos Frid, Venky Krishnan, Howard Morris, John Schettino, Bill Serra, Mirjana Spasojevic

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Full text available: pdf(248.58 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The convergence of Web technology, wireless networks, and portable client devices provides new design opportunities for computer/communications systems. In the HP Labs' "Cooltown" project we have been exploring these opportunities through an infrastructure to support "web presence" for people, places and things. We put web servers into things like printers and put information into web servers about things like artwork; we group physically related things into places embodied in web servers. Using ...

Keywords: location-aware computing, nomadic computing, physical-virtual linkage, ubiquitous computing, world wide web

5 A semantics for web services authentication

Karthikeyan Bhargavan, Cédric Fournet, Andrew D. Gordon

January 2004 **ACM SIGPLAN Notices , Proceedings of the 31st ACM SIGPLAN-SIGACT symposium on Principles of programming languages**, Volume 39 Issue 1

Full text available: pdf(234.06 KB) Additional Information: full citation, abstract, references, citings, index terms

We consider the problem of specifying and verifying cryptographic security protocols for XML web services. The security specification WS-Security describes a range of XML security tokens, such as username tokens, public-key certificates, and digital signature blocks, amounting to a flexible vocabulary for expressing protocols. To describe the syntax of these tokens, we extend the usual XML data model with symbolic representations of cryptographic values. We use predicates on this data model to d ...

Keywords: XML security, applied pi calculus, web services

6 Ubiquitous WWW: Implementing physical hyperlinks using ubiquitous identifier resolution

Tim Kindberg

May 2002 **Proceedings of the eleventh international conference on World Wide Web**

Full text available: pdf(400.83 KB) Additional Information: full citation, abstract, references, citings, index terms

Identifier resolution is presented as a way to link the physical world with virtual Web resources. In this paradigm, designed to support nomadic users, the user employs a handheld, wirelessly connected, sensor-equipped device to read identifiers associated with physical entities. The identifiers are resolved into virtual resources or actions related to the physical entities - as though the user 'clicked on a physical hyperlink'. We have integrated identifier resolution with the Web so that it ca ...

Keywords: identifier resolution, mobile computing, nomadic computing, physical hyperlinks, ubiquitous computing

7 Simulated circulation in the Indonesian archipelago from a high resolution global ocean general circulation model on the numerical wind tunnel

Yukio Masumoto, Takashi Kagimoto, Toshio Yamagata, Masahiro Yoshida, Masahiro Fukuda, Naoki Hirose

January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: pdf(1.29 MB) Additional Information: full citation, references, index terms

8 Technical poster session 3: multimedia tools, end-systems, and applications: Scene tunnels for seamless virtual tour

Jiang Yu Zheng, Yu Zhou

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

Full text available: pdf(3.06 MB) Additional Information: full citation, abstract, references, index terms

This paper proposes a visual representation named scene tunnel to archive and visualize urban scenes for Internet based virtual tour. We scan cityscapes using multiple cameras on a vehicle that moves along streets, and generate scene archive more complete than a route panorama. The scene tunnel can cover high architectures and various object aspects. It contains much less data than video, which is suitable for image transmission and rendering over the Internet. It has a uniformed resolution a ...

Keywords: internet media, navigation, route panorama, scene representation, scene tunnel, visualization

9 The nanomanipulator: a virtual-reality interface for a scanning tunneling microscope

Russell M. Taylor, Warren Robinett, Vernon L. Chi, Frederick P. Brooks, William V. Wright, R. Stanley Williams, Erik J. Snyder

September 1993 **Proceedings of the 20th annual conference on Computer graphics and interactive techniques**

Full text available: pdf(1.91 MB) Additional Information: full citation, references, citings, index terms

Keywords: force, haptic, interactive graphics, scanning tunneling microscopy, scientific visualization, teleoperation, telepresence, virtual worlds

10 Equality-based binary resolution

Vincent J. Digricoli, Malcolm C. Harrison

April 1986 **Journal of the ACM (JACM)**, Volume 33 Issue 2

Full text available: pdf(2.31 MB) Additional Information: full citation, abstract, references, citings, index terms

A major event in automated reasoning was the introduction by Robinson of resolution as an inference principle that is complete for the first-order predicate calculus. Here the theory of binary resolution, based strictly on unification, is recast to incorporate the axioms of equality. Equality-based binary resolution is complete without making use of paramodulation and leads to refutations that are less than half as long as standard

refutations with the equality axioms. A detailed discussion ...

11 Mobile networking in the Internet

Charles E. Perkins

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Full text available: pdf(166.90 KB) Additional Information: full citation, abstract, references, citings, index terms

Computers capable of attaching to the Internet from many places are likely to grow in popularity until they dominate the population of the Internet. Consequently, protocol research has shifted into high gear to develop appropriate network protocols for supporting mobility. This introductory article attempts to outline some of the many promising and interesting research directions. The papers in this special issue indicate the diversity of viewpoints within the research community, and it is ...

12 Network pointers

Christian Tschudin, Richard Gold

January 2003 **ACM SIGCOMM Computer Communication Review**, Volume 33 Issue 1

Full text available: pdf(270.95 KB) Additional Information: full citation, abstract, references, index terms

The Internet architecture can be characterized as having a rather coarse grained and imperative style of network packet handling: confronted with an IP packet and its source and destination addresses, the infrastructure almost blindly and unalterably executes hundreds of resolution, routing and forwarding decisions. There are numerous attempts that try to "extend" the Internet in order to either reduce the immediate impact an arbitrary packet can have (e.g., NAT), or to insert diversions from th ...

13 Technical correspondence: Java RMI, RMI tunneling and Web services comparison and performance analysis

Matjaz B. Juric, Bostjan Kezmah, Marjan Hericko, Ivan Rozman, Ivan Vezocnik

May 2004 **ACM SIGPLAN Notices**, Volume 39 Issue 5

Full text available: pdf(1.38 MB) Additional Information: full citation, abstract, references

This article compares different approaches for developing Java distributed applications which have to communicate through firewalls and proxies, including RMI over open ports, HTTP-to-port, HTTP-to-CGI, HTTP-to-servlet tunneling and web services. A functional comparison of approaches has been done, as well as a detailed performance analysis with overhead analysis and identification of optimizations. Therefore the paper contributes to the overall understanding of different approaches for developi ...

Keywords: RMI, SOAP, performance, tunneling, web services

14 Memory hierarchies: Direct load: dependence-linked dataflow resolution of load address and cache coordinate

Byung-Kwon Chung, Jinsuo Zhang, Jih-Kwon Peir, Shih-Chang Lai, Konrad Lai

December 2001 **Proceedings of the 34th annual ACM/IEEE international symposium on Microarchitecture**

Full text available: pdf(1.38 MB) Additional Information: full citation, abstract, references, citings

Publisher Site

An increasing cache latency in future processors incurs profound performance impacts in spite of advanced out-of-order execution techniques. In this paper, we describe an early address resolution mechanism that accurately resolves both regular and irregular load addresses. The basic idea is to build dynamic dependence links from the instruction that updates the base register to the consumer load instructions. Once a new base address is

available, it triggers calculations of the new load addresse ...

15 Gaze-contingent displays: Reduced saliency of peripheral targets in gaze-contingent multi-resolutional displays: blended versus sharp boundary windows

Eyal M. Reingold, Lester C. Loschky

March 2002 **Proceedings of the symposium on Eye tracking research & applications**

Full text available: pdf(513.58 KB) Additional Information: full citation, abstract, references, citings, index terms

Gaze-contingent multi-resolutional displays (GCMRDs) have been proposed to solve the processing and bandwidth bottleneck in many single-user displays, by dynamically placing high-resolution in a *window* at the center of gaze, with lower resolution everywhere else. GCMRDs are also useful for investigating the perceptual processes involved in natural scene viewing. Several such studies suggest that potential saccade targets in degraded regions are less salient than those in the high-resoluti ...

Keywords: area of interest, bi-resolution displays, dual-resolution displays, eye movements, eyetracking, high-detail inset, multi-resolutional displays, peripheral degradation, peripheral vision, saliency, variable resolution displays, visual perception, visual search

16 Early load address resolution via register tracking

Michael Bekerman, Adi Yoaz, Freddy Gabbay, Stephan Jourdan, Maxim Kalaev, Ronny Ronen

May 2000 **ACM SIGARCH Computer Architecture News , Proceedings of the 27th annual international symposium on Computer architecture**, Volume 28 Issue 2

Full text available: pdf(143.17 KB) Additional Information: full citation, abstract, references, citings, index terms

Higher microprocessor frequencies accentuate the performance cost of memory accesses. This is especially noticeable in the Intel's IA32 architecture where lack of registers results in increased number of memory accesses. This paper presents novel, non-speculative technique that partially hides the increasing load-to-use latency, by allowing the early issue of load instructions. Early load address resolution relies on register tracking to safely compute the addresses of memory refere ...

17 Session C6: virtual reality: Wind tunnel data fusion and immersive visualization: a case study

Kurt Severance, Paul Brewster, Barry Lazos, Daniel Keefe

October 2001 **Proceedings of the conference on Visualization '01**

Full text available: pdf(2.71 MB) Publisher Site Additional Information: full citation, abstract, references, citings, index terms

This case study describes the process of fusing the data from several wind tunnel experiments into a single coherent visualization. Each experiment was conducted independently and was designed to explore different flow features around airplane landing gear. In the past, it would have been very difficult to correlate results from the different experiments. However, with a single 3-D visualization representing the fusion of the three experiments, significant insight into the composite flowfield wa ...

Keywords: VRML, data fusion, image-based rendering, landing gear, line integral convolution, oil flow, particle image velocimetry, photogrammetry, reconstruction, texture mapping, wind tunnel

18 AMRoute: ad hoc multicast routing protocol

Jason Xie, Rajesh R. Talpade, Anthony Mcauley, Mingyan Liu
December 2002 **Mobile Networks and Applications**, Volume 7 Issue 6

Full text available: pdf(216.21 KB) Additional Information: full citation, abstract, references, citings, index terms

The Ad hoc Multicast Routing protocol (AMRoute) presents a novel approach for robust IP Multicast in mobile ad hoc networks by exploiting user-multicast trees and dynamic logical cores. It creates a bidirectional, shared tree for data distribution using only group senders and receivers as tree nodes. Unicast tunnels are used as tree links to connect neighbors on the *user-multicast tree.* Thus, AMRoute does not need to be supported by network nodes that are not interested/capable of multica ...

Keywords: IP multicast, mobile ad hoc networks, network protocols, routing

19 New directions in video conferencing: GAZE-2: conveying eye contact in group video conferencing using eye-controlled camera direction

Roel Vertegaal, Ivo Weevers, Changuk Sohn, Chris Cheung
April 2003 **Proceedings of the conference on Human factors in computing systems**

Full text available: pdf(2.25 MB) Additional Information: full citation, abstract, references, citings, index terms

GAZE-2 is a novel group video conferencing system that uses eye-controlled camera direction to ensure parallax-free transmission of eye contact. To convey eye contact, GAZE-2 employs a video tunnel that allows placement of cameras behind participant images on the screen. To avoid parallax, GAZE-2 automatically directs the cameras in this video tunnel using an eye tracker, selecting a single camera closest to where the user is looking for broadcast. Images of users are displayed in a virtual meet ...

Keywords: attentive user interfaces, eye contact, eye tracking, gaze, multiparty video conferencing

20 Data level comparison of wind tunnel and computational fluid dynamics data

Qin Shen, Alex Pang, Sam Uselton
October 1998 **Proceedings of the conference on Visualization '98**

Full text available: pdf(1.25 MB) Publisher Site Additional Information: full citation, references, citings, index terms

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	browser with tunnel$ with URI with resolut$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/24 15:08
S2	0	browser with tunnel$ with resolut$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/24 15:08
S3	0	browser with tunnel$ with resolut$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/24 15:07
S4	0	tunnel$ with URI with resolut$4	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/24 15:07
S5	4991	709/203.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/24 15:07
S6	28648	tunneling	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/24 15:08
S7	464	S6 with resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/24 15:08
S8	0	S7 and URI and browser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/24 15:08
S9	5	S7 and browser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/24 15:09
S10	5	S9 and @ad<"20010706"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 10:57

S11	4	tunnel$ with obtain$ with UR$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/24 15:30
S12	3	S11 and @ad<"20010706"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 10:56
S13	828	(resolv$5 or resolu$) with UR$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 10:56
S14	0	(resolv$5 or resolu$) with UR$1 with tunnel$	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 10:57
S15	308	(resolv$5 or resolu$) with UR$1 with server	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 10:59
S16	26	S15 and tunnel$	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 10:39
S17	10	S16 and @ad<"20010706"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 11:07
S18	43	(resolv$5 or resolu$) with URI with server	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 10:59
S19	14	S18 and @ad<"20010706"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 11:10
S20	0	URI with resolution with sever with client	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 11:07

S21	0	identifier with resolution with sever with client	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 11:07
S22	2	URI with resolution with server with client	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 11:07
S23	1	S22 and @ad<"20010706"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 11:07
S24	3	URI with tunnel$	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 11:11
S25	0	S24 and @ad<"20010706"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 11:11
S26	33	URL with tunnel$	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 11:11
S27	21	S26 and @ad<"20010706"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 11:19
S28	0	server with returned with "resolved URI"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 11:19
S29	0	server with returned with "resolved URL"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 11:19
S30	1	server with return$ with "resolved URL"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 11:19

S31	0	server with return$ with "resolved URI"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 11:19
S32	1	S30 and @ad<"20010706"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 11:19
S33	28688	tunneling	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 12:01
S34	465	S33 with resolution	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 12:01
S35	5	S34 and browser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 12:08
S36	0	US20020065906.pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 12:08
S37	2	"20020065906".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 12:08
S38	1	S37 and browser	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 12:27
S39	1	S37 and http	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 12:40
S40	1	S37 and (rout$5 with control$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 12:43

S41	1	S37 and (rout$5 with information)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 12:44
S42	1	S37 and (time)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 12:45
S43	0	S37 and timeout	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 12:45
S44	0	S37 and bandwidth	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 12:45
S45	0	S37 and bandwidth$	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 12:46
S46	1	S37 and http	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 12:51
S47	0	S37 and encod$	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 12:51
S48	1	S37 and initiat$	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 13:01
S49	0	S37 and authenticat$	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/25 13:01
S50	1556	709/220.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 10:38

S51	526	709/222.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 10:38
S52	0	("2002/0065906").URPN.	USPAT	OR	ON	2005/01/31 10:38
S53	4	tunnel$ with obtain$ with UR$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 10:39
S54	310	(resolv$5 or resolu$) with UR$1 with server	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 10:39
S55	26	S54 and tunnel$	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/31 10:40